WHAT IS CLAIMED IS:

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1. A method of producing p-type Group III nitride compound semiconductor, comprising steps of:

forming a first Group III nitride compound semiconductor layer doped with p-type impurities;

forming a second Group III nitride compound semiconductor layer doped with substantially at least one of (i) no impurities, (ii) n-type impurities and (iii) n-type and p-type impurities; and

reducing resistance after or during the step of forming said second Group III nitride compound semiconductor layer.

- 2. A method of producing p-type Group III nitride compound semiconductor according to claim 1, further comprising a step of removing said second Group III nitride compound semiconductor layer after or during the step of reducing resistance.
- 3. A method of producing p-type Group III nitride compound semiconductor according to claim 1, wherein said second Group III nitride compound semiconductor layer has a thickness selected to be in a range of from 1 nm to 100 nm, both inclusively.
- 4. A method of producing p-type Group III nitride
 25 compound semiconductor according to claim 1, wherein an amount

of p-type impurities added to said second Group III nitride compound semiconductor layer is smaller than an amount of p-type impurities added to said first Group III nitride compound semiconductor layer.